

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 97945

TO: Ted Criares

Location: CM1/2A03/

Art Unit: 1617

Thursday, July 03, 2003

Case Serial Number: 029314

From: Mary Jane Ruhl

Location: Biotech-Chem Library

CM1-6A06

Phone: 605-1155

maryjane.ruhl@uspto.gov

Search Notes

Examiner Criares,

Here are the results from your recent search request.

Please feel free to contact me if you have any questions about these results.

Thank you for using STIC services. We appreciate the opportunity to serve you.

Sincerely,

Mary Jane Ruhl Technical Information Specialist STIC CM-1, Rm. 6-A-06 605-1155



=> d his ful

(FILE 'HOME' ENTERED AT 11:55:29 ON 03 JUL 2003)

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I did a combination

of shusture of

Idictionary searching

to locate the 2 comple
     FILE 'REGISTRY' ENTERED AT 11:55:49 ON 03 JUL 2003
                  STRUCTURE
L1
                2 SEA SSS SAM L1
L2
                5 SEA SSS FUL L1
L3
                3 SEA ABB=ON L3 NOT L2
L4
                  STR L1
L5
                7 SEA SSS SAM L5
L6
             107 SEA SSS FUL L5
L7
                  STR L5
rs
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L9
                6 SEA SSS FUL L8
L10
                  STR L5
L11
L12
                7 SEA SSS SAM L11
             107 SEA SSS FUL L11
L13
               64 SEA ABB=ON L13 AND NR=4 AND NRS=4
L14
                4 SEA ABB=ON L14 AND O=4 AND N=4
L15
                  SEA ABB-ON (387825-75-4 OR 391610-67-6 OR 391610-68-7 OR
                  49<del>7107-87-6 OR 252002-40-7)/RN</del>
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FILE 'HCAPLUS' ENTERED AT 12:20:55 ON 03 JUL 2003

FILE 'REGISTRY' ENTERED AT 12:21:52 ON 03 JUL 2003

L18 2 SEA ABB=ON (391610-68-7 OR 497107-87-6)/RN' the 2 sleeted species—

SOL ASSECTABLE AT 12:23:15 ON 03 JUL 2003

L19 3 SEA ABB=ON L18

/L20 3 SEA ABB=ON L19 AND (?OBES? OR ?ANOREX? OR ?BULEM?) 3 CITY FLOWS

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS. JAPTO' ENTERED AT

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO' ENTERED AT
12:24:12 ON 03 JUL 2003

L21
1 SEA ABB=ON L20; / cit from "other db's"

Criares 10/029,314

03/07/2003

=> d 118 1-2
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L18 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN 497107-87-6 REGISTRY

CN 5-Pyrimidinecarboxylic acid, 1-[[[3-[4-[3-(acetylamino)phenyl]-1-piperidinyl]propyl]amino]carbonyl]-6-(3,4-difluorophenyl)-1,2,3,6-tetrahydro-4-(methoxymethyl)-2-oxo-, methyl ester, monohydrochloride, (6S)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN SNAP 7941

FS STEREOSEARCH

MF C31 H37 F2 N5 O6 . Cl H

SR CA

LC STN Files: BIOSIS, CA, CAPLUS

CRN (387825-78-7)

Absolute stereochemistry. Rotation (+).

● HCl

1 REFERENCES IN FILE CA (1957 TO DATE) 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L18 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN **391610-68-7** REGISTRY

CN 5-Pyrimidinecarboxylic acid, 6-(3,4-difluorophenyl)-1,2,3,6-tetrahydro-4-(methoxymethyl)-1-[[[3-[4-(3-methoxyphenyl)-1-piperidinyl]propyl]amino]carbonyl]-2-oxo-, methyl ester, (+)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H36 F2 N4 O6

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Rotation (+).

$$\begin{array}{c|c} & & & & \\ & &$$

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

 - 2 REFERENCES IN FILE CA (1957 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> d que stat 120

L18 2 SEA FILE=REGISTRY ABB=ON (391610-68-7 OR 497107-87-6)/RN

L19 3 SEA FILE=HCAPLUS ABB=ON L18

L20 3 SEA FILE=HCAPLUS ABB=ON L19 AND (?OBES? OR ?ANOREX? OR

?BULEM?)

=> d ibib abs hitrn 120 1-3

L20 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2003:282121 HCAPLUS

DOCUMENT NUMBER: 138:287697

TITLE: Preparation and use of arylpyrimidines as selective

melanin concentrating hormone-1 (mch-1) receptor

antagonists

INVENTOR(S): Marzabadi, Mohammad R.; Wetzel, John; Deleon, John E.;

Lagu, Bharat; Gluchowski, Charles; Noble, Stewart;

Nagarathnam, Dhanapalan

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 101 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE: Er FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2003069261 A1 20030410 US 2001-899635 20010705

PRIORITY APPLN. INFO.: US 2000-216218P P 20000705

OTHER SOURCE(S):

MARPAT 138:287697

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I-IV [A = (un)substituted Ph, pyridyl, benzothiazolyl, benzoxazolyl, etc.; R1 = H, NO2, CN, (fluoro)alkyl, (cyclo)alkenyl, alkynyl, (fluoro)cycloalkyl, amino, alkoxy, acyl, carboxy, carboxamido; R2 = H, (hydroxy)alkyl, alkoxyalkyl, fluoroalkyl, cycloalkenyl, etc.; R3 = H, (fluoro)alkyl, (cyclo)alkenyl, alkynyl, (fluoro)cycloalkyl; R4 = alkyl-piperidinyl, alkyl-tetrahydropyridinyl, etc. in which the heterocycle is substituted with (hetero)aryl, thioacyl, amido, etc.; X = O, S, NR3; n = 0 - 5] were prepd. For instance, (+)-V was prepd. by reaction of 5-methoxycarbonyl-4-methoxymethyl-1,2,3,6-tetrahydro-2-oxo-6-(3,4-difluorophenyl)-1-[(4-nitrophenyloxy)carbonyl]pyrimidine (prepn. given) and the corresponding propylamine sidechain with base (e.g., iPr2NEt) in CH2Cl2. (+)-V had antagonist potency (Kb) = 0.3 nM and Ki = 0.08 nM for the melanin-concg. hormone receptor (mch) and Ki > 50,000 nM for two neuropeptide Y receptors and Ki > 50,000 nM three galanin receptors. I-IV are useful in the treatment of, e.g., bulimia nervosa and obesity.

IT 391610-68-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and use of arylpyrimidines as selective melanin concg. hormone-1 (mch-1) receptor antagonists)

L20 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:569549 HCAPLUS

DOCUMENT NUMBER: 138:163330

TITLE: Antidepressant, anxiolytic and anorectic effects of a

melanin-concentrating hormone-1 receptor antagonist

AUTHOR(S): Borowsky, Beth; Durkin, Margaret M.; Ogozalek, Kristine; Marzabadi, Mohammad R.; DeLeon, John;

Heurich, Rainer; Lichtblau, Harvey; Shaposhnik, Zoya; Daniewska, Irena; Blackburn, Thomas P.; Branchek, Theresa A.; Gerald, Christophe; Vaysse, Pierre J.;

Forray, Carlos

CORPORATE SOURCE: Synaptic Pharmaceutical Corporation, Paramus, NJ, USA

SOURCE: Nature Medicine (New York, NY, United States) (2002),

8(8), 825-830

CODEN: NAMEFI; ISSN: 1078-8956

PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal LANGUAGE: English

Melanin concg. hormone (MCH) is an orexigenic hypothalamic neuropeptide, which plays an important role in the complex regulation of energy balance and body wt. Here we show that SNAP-7941, a selective, high-affinity MCH1 receptor (MCH1-R) antagonist, inhibited food intake stimulated by central administration of MCH, reduced consumption of palatable food, and, after chronic administration to rats with diet-induced obesity,

resulted in a marked, sustained decrease in body wt. In addn., after mapping the binding sites for [3H]SNAP-7941 in rat brain, we evaluated its effects in a series of behavioral models. SNAP-7941 produced effects similar to clin. used antidepressants and anxiolytics in three animal models of depression/anxiety: the rat forced-swim test, rat social interaction and guinea pig maternal-sepn. vocalization tests. Given these observations, an MCH1-R antagonist may be useful not only in the management of obesity but also as a treatment for depression and/or anxiety.

IT **497107-87-6**, SNAP 7941

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antidepressant, anxiolytic and anorectic effects of melanin-concg.

hormone-1 receptor antagonist SNAP-7941)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:72

2002:72060 HCAPLUS

DOCUMENT NUMBER:

136:134773

TITLE:

Preparation and use of arylpyrimidines as selective

melanin concentrating hormone-1 (mch-1) receptor

antagonists

INVENTOR(S):

Lagu, Bharat; Wetzel, John; Marzabadi, Mohammad R.; Deleon, John E.; Gluchowski, Charles; Noble, Stewart;

Nagarathnam, Dhanapalan; Chiu, George Synaptic Pharmaceutical Corporation, USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 310 pp.

SOURCE: PCT Int. Appl. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

DOCUMENT TYP

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE

APPLICATION NO. DATE

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WO 2001-US21286 20010705
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    WO 2002006245
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        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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                                         EP 2001-952440 20010705
                          20030409
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                                                        A 20000705
PRIORITY APPLN. INFO.:
                                       WO 2001-US21286 W 20010705
OTHER SOURCE(S):
                       MARPAT 136:134773
GΙ
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I-IV [A = (un)substituted Ph, pyridyl, benzothiazolyl, AΒ benzoxazolyl, etc.; R1 = H, NO2, CN, (fluoro)alkyl, (cyclo)alkenyl, alkynyl, (fluoro)cycloalkyl, amino, alkoxy, acyl, carboxy, carboxamido; R2 = H, (hydroxy)alkyl, alkoxyalkyl, fluoroalkyl, cycloalkenyl, etc.; R3 = H, (fluoro)alkyl, (cyclo)alkenyl, alkynyl, (fluoro)cycloalkyl; R4 = alkyl-piperidinyl, alkyl-tetrahydropyridinyl, etc. in which the heterocycle is substituted with (hetero)aryl, thioacyl, amido, etc.; X = O, S, NR3; n = 0 - 5] were prepd. For instance, (+)-V was prepd. by reaction of 5-methoxycarbonyl-4-methoxymethyl-1,2,3,6-tetrahydro-2-oxo-6-(3,4-difluorophenyl)-1-[(4-nitrophenyloxy)carbonyl]pyrimidine (prepn. given) and the corresponding propylamine sidechain with base (e.g., iPr2NEt) in CH2Cl2. (+)-V had antagonist potency (Kb) = 0.3 nM and Ki = $0.08 \, \text{nM}$ for the melanin-concg. hormone receptor (mch) and Ki $> 50,000 \, \text{nM}$ for two neuropeptide Y receptors and Ki > 50,000 nM three ġalanin receptors. I-IV are useful in the treatment of, e.g., bulimia nervosa and obesity.

IT 391610-68-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and use of arylpyrimidines as selective melanin concg. hormone-1 (mch-1) receptor antagonists)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs 121 1-1

L21 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ACCESSION NUMBER: 2003:294799 BIOSIS

DOCUMENT NUMBER:

PREV200300294799

TITLE:

ANORECTIC, ANXIOLYTIC AND ANTIDEPRESSANT EFFECTS OF A MELANIN - CONCENTRATING HORMONE1 RECEPTOR ANTAGONIST.

AUTHOR(S):

Wolinsky, T. D. (1); Borowsky, B. (1); Ogozalek, O. (1); Lichtblau, H. (1); Marzabadi, M. (1); Blackburn, T. P. (1); Branchek, T. A. (1); Vaysse, P. J. (1); Gerald, C. (1);

Forray, C. (1)

CORPORATE SOURCE:

SOURCE:

(1) Synaptic Pharmaceutical Corp., Paramus, NJ, USA USA Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 384.11.

http://sfn.scholarone.com. cd-rom.

Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience Orlando, Florida, USA November 02-07, 2002

Society for Neuroscience

DOCUMENT TYPE:

Conference English

LANGUAGE: The hypothalamic neuropeptide melanin-concentrating hormone (MCH) is important in the regulation of energy homeostasis and body weight. Although several lines of investigation support a rationale for the use of MCH antagonists in the treatment of obesity, it is not clear whether there is sufficient endogenous MCH tone to produce sustained loss of body weight after chronic MCH blockade. We evaluated SNAP 7941, a high affinity, selective MCH1 receptor (MCH1-R) antagonist in the diet-induced obesity model in rats. Robust and sustained decreases in food intake and body weight were observed which could not be attributed to malaise caused by the compound. Because MCH has also been implicated in the regulation of anxiety and mood, the compound was assessed in a variety of animal models. SNAP 7941 reduced the number of vocalizations produced by guinea pig pups during a period of maternal separation in a manner comparable to the anxiolytic buspirone. In further support of its possible use as an anxiolytic, pretreatment with SNAP 7941 increased the degree of social behavior displayed by pairs of unfamiliar rats in the social interaction test. Similar to the profile of clinically used antidepressants, SNAP 7941 decreased immobility in the rat forced swim test. These findings support the utility of an MCH1-R antagonist for the management of obesity and highlight its potential for the treatment of anxiety and/or depression.

=> d que stat L18 L19 L20	120 2 SEA FILE=REGISTRY ABB=ON (391610-68-7 OR 497107-87-6)/RN 3 SEA FILE=HCAPLUS ABB=ON L18 3 SEA FILE=HCAPLUS ABB=ON L19 AND (?OBES? OR ?ANOREX? OR ?BULEM?)
=> d que stat L18 L19 L20	121 2 SEA FILE=REGISTRY ABB=ON (391610-68-7 OR 497107-87-6)/RN 3 SEA FILE=HCAPLUS ABB=ON L18 3 SEA FILE=HCAPLUS ABB=ON L19 AND (?OBES? OR ?ANOREX? OR ?BULEM?)
L21	1 SEA L20

Imenter Seawh

Criares 10/029,314

03/07/2003

 \Rightarrow d ibib abs 130 1-4

L30 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2003:64296 HCAPLUS

DOCUMENT NUMBER:

138:314672

TITLE:

The MCH receptor family: feeding brain disorders?

AUTHOR(S):

Forray, Carlos

CORPORATE SOURCE:

Synaptic Pharmaceutical Corporation, Paramus, NJ,

07652, USA

SOURCE:

Current Opinion in Pharmacology (2003), 3(1), 85-89

CODEN: COPUBK; ISSN: 1471-4892

PUBLISHER: DOCUMENT TYPE: Elsevier Science Ltd. Journal; General Review

LANGUAGE:

English

A review. The importance of melanin concg. hormone (MCH) in the control AB of energy balance has been confirmed by findings of lean phenotypes of mice with targeted deletion of the melanin concg. hormone receptor 1 (

MCH1-R). The recent publications of anorectic and antiobesity effects of the first two selective MCH1-R

antagonists have confirmed the notion that pharmacol. blockade of

MCH1-R is a viable therapeutic approach for obesity. In

addn., MCH1-R antagonists have been found to have antidepressant

and anxiolytic properties. 40

REFERENCE COUNT:

THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2002:569549 HCAPLUS

DOCUMENT NUMBER:

138:163330

TITLE:

Antidepressant, anxiolytic and anorectic effects of a

melanin-concentrating hormone-1 receptor antagonist

Borowsky, Beth; Durkin, Margaret M.; Ogozalek, AUTHOR(S):

Kristine; Marzabadi, Mohammad R.; DeLeon, John; Heurich, Rainer; Lichtblau, Harvey; Shaposhnik, Zoya;

Daniewska, Irena; Blackburn, Thomas P.; Branchek, Theresa A.; Gerald, Christophe; Vaysse, Pierre J.;

Forray, Carlos

CORPORATE SOURCE:

SOURCE:

Synaptic Pharmaceutical Corporation, Paramus, NJ, USA

Nature Medicine (New York, NY, United States) (2002),

8(8), 825-830

CODEN: NAMEFI; ISSN: 1078-8956

PUBLISHER:

Nature Publishing Group Journal

DOCUMENT TYPE: LANGUAGE:

English

Melanin concq. hormone (MCH) is an orexigenic hypothalamic neuropeptide, AB which plays an important role in the complex regulation of energy balance and body wt. Here we show that SNAP-7941, a selective, high-affinity MCH1 receptor (MCH1-R) antagonist, inhibited food intake stimulated by central administration of MCH, reduced consumption of palatable food, and, after chronic administration to rats with diet-induced obesity, resulted in a marked, sustained decrease in body wt. In addn., after mapping the binding sites for [3H]SNAP-7941 in rat brain, we evaluated its effects in a series of behavioral models. SNAP-7941 produced effects similar to clin. used antidepressants and

anxiolytics in three animal models of depression/anxiety: the rat forced-swim test, rat social interaction and guinea pig maternal-sepn.

vocalization tests. Given these observations, an MCH1-R antagonist may be useful not only in the management of obesity

but also as a treatment for depression and/or anxiety.

REFERENCE COUNT:

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS 25

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:31619 HCAPLUS

DOCUMENT NUMBER: 136:96697

TITLE: Human melanin concentrating hormone receptor MCH1, its DNA, its synthetic ligands and

diagnostic and therapeutic uses thereof

INVENTOR(S): Salon, John A.; Laz, Thomas M.; Nagorny, Raisa; Wilson, Amy E.

PATENT ASSIGNEE(S): Synaptic Pharmaceutical Corporation, USA'

SOURCE: PCT Int. Appl., 524 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PA	PATENT NO.				ND	DATE			A	PPLI	CATI	ο.	DATE					
WO	2002002744			A2 20020110				W	20	01-U	50	20010705						
WO	20020	002744		A.	3	20020808												
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,	
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EP	EP 1246847 A2 200							09 EP 2001-952456							20010705			
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		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL,	TR							
PRIORIT	PRIORITY APPLN. INFO							US 2000-610635					Α	20000	705			
					1	WO 2	001-	US21	350	W	20010705							

This invention provides an isolated nucleic acid encoding a human MCH1 receptor, a purified human MCH1 receptor, vectors comprising isolated nucleic acid encoding a human MCH1 receptor, cells comprising such vectors, antibodies directed to a human MCH1 receptor, nucleic acid probes useful for detecting nucleic acid encoding human MCH1 receptors, antisense oligonucleotides complementary to unique sequence of nucleic acid encoding human MCH1 receptors, transgenic, nonhuman animals which express DNA encoding a normal or mutant human MCH1 receptor, methods of isolating a human MCH1 receptor, methods of treating an abnormality that is linked to the activity of a human MCH1 receptor, as well as methods of detg. binding of compds. to mammalian MCH1 receptors. This invention provides a method of modifying the feeding behavior of a subject which comprises administering to the subject an amt. of an MCH1 antagonist effective to decrease the body mass of the subject and/or decrease the consumption of food by the subject. This invention further provides a method of treating a subject suffering from depression and/or anxiety which comprises administering to the subject an amt. of an MCH1 antagonist effective to treat the subject's depression and/or anxiety.

L30 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:457194 HCAPLUS

DOCUMENT NUMBER: 133:85156

TITLE:

Human melanin concentrating hormone receptor MCH1 and cDNA and diagnostic and therapeutic

uses thereof

INVENTOR(S):

Salon, John A.; Laz, Thomas M.; Nagorny, Raisa; Wilson, Amy E.

PATENT ASSIGNEE(S):

Synaptic Pharmaceutical Corporation, USA

SOURCE:

PCT Int. Appl., 173 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent English

.3

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.			KIND DATE				A			ο.	DATE							
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WO	2000	0392	79	A.	3.	2000	1102												
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						RU,													
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EP					A2 20011010 EP 1999-969993														
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	6291													2000					
US	S 2002111306			A1 20020815			0815		Ü	IS 20	01-8	8	20010620						
	S 2003077701												20011220						
RIORITY	ORITY APPLN. INFO.:													1998					
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This invention provides an isolated nucleic acid encoding a human AB MCH1 receptor; a purified human MCH1 receptor; vectors comprising isolated nucleic acid encoding a human MCH1 receptor; cells comprising such vectors; antibodies directed to a human MCH1 receptor; nucleic acid probes useful for detecting nucleic acid encoding human MCH1 receptors; antisense oligonucleotides complementary to unique sequences of nucleic acid encoding human MCH1 receptors; transgenic, nonhuman animals which express DNA encoding a normal or mutant human MCH1 receptor; methods of isolating a human MCH1 receptor; methods of treating an abnormality that is linked to the activity of a human MCH1 receptor; and methods of detg. binding of compds. to mammalian MCH1 receptors. Thus, the cDNA for human MCH1 was cloned and sequenced. Treatment of recombinant COS-7 cells expressing human MCH1 with MCH resulted in stimulation of intracellular inositol phosphate release as well as stimulation of expression of a c-fos-regulated reporter gene. CHO cells producing MCH1 exhibited a dose-dependent increase in acidification rate when treated with MCH. MRNA encoding the human MCH1 was widespread

throughout all tissues assayed, including both CNS and peripheral organs.